



## Missouri Department of Natural Resources

### Solid Waste Technician Certification Course

This is an entry-level class recommended for people working in the solid waste field such as managers and operators of solid waste landfills, environmental engineering consultants, and regulators. Certification is required for the individual who is in charge of the operations at a Missouri sanitary or demolition landfill. The course covers such topics as state and federal regulations, reading and interpreting engineering plan sheets, surveying, permitting, landfill design criteria, daily operations and safety.

### Course Location

This class will be held in the Department's Elm Street Conference Center, at 1738 Elm Street, Jefferson City, Missouri.

### Course Schedule

Registration will begin at 8:00 a.m. on Day 1. The course will meet from 8:15 a.m. - 5:00 p.m. on Day 1 and Day 2. On Day 3, the course will run from 8:15 a.m. until noon. A written exam will be given to those wishing to become certified following the end of coursework on the third day. Three hours will be allowed for this exam.

### Accommodations

Lodging arrangements are the responsibility of the participant. Jefferson City offers an abundance of lodging establishments within a 5-10 minute drive of the Elm Street Conference Center. A map showing the locations of the conference center and local hotels, motels and bed & breakfasts can be provided upon request.

### Enrollment Fee

A fee of \$30.00 is charged for this class which covers the cost of printing the manual and hand-outs. Coffee, soda and donuts are also provided each day. Fee does not include lodging or meals.

### Bring a Calculator

This class covers a number of subjects that require mathematical calculations. Each participant should bring a hand-held calculator for the in-class exercises, homework, and the math questions on the exam.

### Emergency Contact Number

If you need to be contacted at the course, phone messages may be left for you at 573-522-3345.

### Three Easy Ways to Enroll

1. Register by completing the enrollment form on the reverse side and sending by regular mail or by fax to the address or fax number provided, or
2. Register by telephone by calling Valerie Garrett at (573) 751-5401, or
3. Register on-line by visiting our web page @ <http://www.dnr.state.mo.us/alpd/swmp/training/training.htm>.

### Send No Money Now

A registration confirmation letter and an invoice for the enrollment fee will be sent to each participant following receipt of the course registration.

# Course Outline

## Introduction

History of solid waste management in Missouri  
Solid Waste Technician certification requirements

## Types of Waste

Sources and composition of waste  
Definitions and types of waste  
Waste excluded from landfills

## Waste Management Options

Reduction  
Reuse  
Recycling  
Composting  
Energy Recovery  
Incineration  
Landfilling

## Governmental Regulations

Laws, regulations, policies and guidance  
Citizen involvement in rulemaking  
Other environmental laws (RCRA, Air, etc.)  
Compliance Inspections  
Resolving violations through enforcement

## Waste Decomposition

Biological decomposition processes  
Subsidence  
Leachate generation and impacts  
Landfill gas generation and impacts

## Permitting a landfill

Geologic evaluation of a proposed site  
Permit application and review process  
Public participation in the permitting process

## Considerations in Landfill Siting

Hydrology  
Geology  
Soils

## Landfill Design

Plan reading  
Landfill mathematics\*  
Leachate management  
Landfill gas management  
Groundwater monitoring programs

## Landfill Operations

Surveying techniques instruction & exercise\*\*  
Compaction and daily cover  
Landfill equipment  
Recordkeeping

## Landfill Closure and Post-Closure Care

Closure procedures & required documents  
Financial Assurance Instruments  
Post-closure requirements

## Safety

Safety during equipment operation  
Weather related health and safety concerns  
Safety programs and training

## Infectious Waste

Packaging requirements  
Transportation requirements  
Treatment and disposal requirements  
Exemptions for household infectious waste

\* A hand-held calculator will be necessary to work mathematical problems in class, on homework and on the written examination.

\*\* An outdoor surveying exercise will be included if weather allows.

## Solid Waste Technician Certification Course -- Enrollment Form

Mail to: Valerie Garrett

Missouri Department of Natural Resources

P.O. Box 176

Jefferson City, MO 65201

or fax: (573) 526-3902

☐ March 9-11, 2004

☐ August 10-12, 2004

Name \_\_\_\_\_

Title \_\_\_\_\_

Facility \_\_\_\_\_

Permit # \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone (    ) \_\_\_\_\_

Fax (    ) \_\_\_\_\_

E-mail \_\_\_\_\_